

5 CLAIMS:

1. A synergistic herbal Oro-dental care composition comprising 20-30% by weight of powdered parts or extract of *Citrus karna*, 20-30 % by weight of powdered parts or extract of *Zanthoxylum armatum*, 20-30% by weight of powdered parts or extract of *Azadirachta indica*, 20-30% by weight of powdered parts or extract of *Oriza sativa* and optionally one or more additives.
- 10 2. A composition as claimed in claim 1, the dental care composition is used in the form of powder, paste, gel, dental pack, dental floss, mouthwash and chewing gum.
- 15 3. A composition as claimed in claim 2, the dental care composition is tooth powder.
4. A composition as claimed in claim 1, wherein *Citrus karna* used is in powder form or as an extract and as obtained from citrus karna fruit peal or leaf or flowers.
- 20 5. A composition as claimed in claim 1, wherein the *Zanthoxylum armatum* is used in powder form or as an extract and is obtained from flowers, leaves, roots or fruits of *Zanthoxylum armatum*.
6. A composition as claimed in claim 1, wherein *Azadirachta indica* used is in powder form or as an extract and as obtained from twigs, bark, seeds or leaves of *Azadirachta indica*.
- 25 7. A composition as claimed in claim 1, wherein *Oriza sativa* used is in the form of Carbon Black chared husk.
8. A composition as claimed in claim 1, wherein the additives added are selected from the group consisting aromatizing agent, flavoring agent, sweeteners, colorants, polishing material, organic acid, alcohol, essential oils, exert carminative, antiseptic and analgesic agent.
- 30 9. A composition as claimed in claim 8, wherein alcohol used is ethanol.
10. A composition as claimed in claim 8, wherein aromatizing agent used is mint.
- 35 11. A composition as claimed in claim 8, wherein mint used are peppermint or pericarpmint.
12. A composition as claimed in claim 8, wherein polishing material is abrasive particulate, having particle size up to 20 microns.

- 5 **13.** A composition as claimed in claim 8, wherein organic acid used is acetic acid.
- 10 **14.** A composition as claimed in claim 8, wherein flavoring agent used are natural or artificials cinnamon-clove beads.
- 15 **15.** A composition as claimed in claim 8, wherein flavoring agent used are selected form cinnamon-clove beads, citrus flavor such as orange and lemon and vanilla.
- 15 **16.** A composition as claimed in claim 1, is useful in treating discolored teeth, tongue, soreness of oral mucosa, stomatitis, ulcers, traumatic lesions of the mucus, chronic, recurrent cankers, plaque, halitos, gingivitics, dental extraction caries in teeth, gum, stomatitis, calculi, turtar formation, cankers, in protecting oral mucus against lipid peroxidation due to formation of free radicals and against contaminates (ozone, cigarette, smoke) and for soothing, curative, anti-inflammatory effect on epithelial lesions and reducing pain produced by putting false teeth in place.
- 20 **17.** A process for preparing a synergistic herbal oro dental care composition, said process comprising the step of mixing 20-30% by weight of powdered parts or extract of Citrus karna, 20-30 % by weight of powdered parts or extract of Zanthoxylum armatum, 20-30% by weight of powdered parts or extract of Azadirachta indica, 20-30% by weight of powdered parts or extract of Oriza sativa and optionally one or more additives.
- 25 **18.** A process as claimed in claim 17, wherein powder form of the citrus karna or Zanthoxylum armatum or Azadirachta indica or Oriza sativa are obtained by drying leaves or rhizome or aerial parts of the plants and grinding them in powder form.
- 30 **19.** A process as claimed in claim 17, wherein Citrus karna used is in powder form and is obtained from citrus karna peal off.
- 35 **20.** A process as claimed in claim 17, wherein the Zanthoxylum armatum is used in powder form and is obtained from flowers, leaves, roots or fruits of Zanthoxylum armatum.
- 35 **21.** A process as claimed in claim 17, wherein Azadirachta indica used is in powder form and obtained from twigs, bark or leaves of Azadirachta indica.
- 35 **22.** A process as claimed in claim 17, wherein Oriza sativa used is in the form of Carbon Black chared husk.

- 5 23. A process as claimed in claim 17, wherein extracts of *citrus karna*, or *Zanthoxylum armatum* or *Azadirachta indica* or *Oriza sativa* are obtained by extracting powder parts of the same with the aqueous alcohol for 4 to 10 days under reduced pressure and at a temperature in the range of 40 to 60 °C.
- 10 24. A process as claimed in claim 23, wherein the ratio between the powdered plants &the aqueous alcohols is in the range of 1:8 to 1:15.
- 15 25. A process as claimed in claim 17, wherein the additives added are selected from the group comprising aromatizing agent, flavoring agent, sweeteners, colorants, polishing material and organic acid.
- 20 26. A process as claimed in claim 17, wherein aromatizing agent used is mint.
- 25 27. A process as claimed in claim 17, wherein mint used are peppermint or pericarpmint.
- 30 28. A process as claimed in claim 17, wherein polishing material is abrasive particulate, having particle size up to 20 microns.
- 35 29. A process as claimed in claim 17, wherein organic acid used is acetic acid.
- 30 30. A process as claimed in claim 17, wherein flavoring agent used are natural or artificial cinnamon-clove beads.
- 35 31. A process as claimed in claim 17, wherein flavoring agent used are selected form cinnamon-clove beads, citrus flavor such as orange and lemon and vanilla.
- 40 32. Use of oro-dental care composition comprising 20-30% by weight of powdered parts or extract of *Citrus karna*, 20-30 % by weight of powdered parts or extract of *Zanthoxylum armatum*, 20-30% by weight of powdered parts or extract of *Azadirachta indica*, 20-30% by weight of powdered parts or extract of *Oriza sativa* and optionally one or more additives for treating discolored teeth, tongue, sorness of oral mucosa, stomatitis, ulcers, traumatic lesions of the mucus, chronic, recurrent cankers, plaque, halitos, gingivitics, dental extraction caries in teeth, gum, stomatitis, calculi, turtar formation, cankers, in protecting oral mucus against lipid peroxidation due to formation of free radicals and against contaminates (ozone, cigarette, smoke) and for soothing, curative, anti-inflammatory effect on epithelial lesions and reducing pain produced by putting false teeth in place.

- 5 **33.** Use of oro-dental care composition as claimed in claim 32, wherein said composition is used in the form of powder, paste, gel, dental floss, mouthwash and chewing gum.
- 10 **34.** Use of oro-dental care composition as claimed in claim 32, wherein said composition is used as tooth powder.
- 15 **35.** Use of oro-dental care composition as claimed in claim 32, wherein the *Citrus karna* is used in powder form or as an extract and as obtained from citrus karna fruit peal or leaf or flowers.
- 20 **36.** Use of oro-dental care composition as claimed in claim 32, wherein the *Zanthoxylum armatum* is used in powder form or as an extract and is obtained from flowers, leaves, roots or fruits of *Zanthoxylum armatum*.
- 25 **37.** Use of oro-dental care composition as claimed in claim 32, wherein *Azadirachta indica* used is in powder form or as an extract and as obtained from twigs, bark, seeds or leaves of *Azadirachta indica*.
- 30 **38.** Use of oro-dental care composition as claimed in claim 32, wherein *Oriza sativa* used is in the form of Carbon Black chared husk.
- 35 **39.** Use of oro-dental care composition as claimed in claim 32, wherein the additives added are selected from the group consisting aromatizing agent, flavoring agent, sweeteners, colorants, polishing material, organic acid, alcohol, essential oils, exert carminative, antiseptic and analgesic agent.
- 40 **40.** Use of oro-dental care composition as claimed in claim 39, wherein alcohol used is ethanol.
- 41 **41.** Use of oro-dental care composition as claimed in claim 39, wherein aromatizing agent used is mint.
- 42 **42.** Use of oro-dental care composition as claimed in claim 39, wherein mint used are peppermint or pericarpmint.
- 43 **43.** Use of oro-dental care composition as claimed in claim 39, wherein polishing material is abrasive particulate, having particle size up to 20 microns.
- 44 **44.** Use of oro-dental care composition as claimed in claim 39, wherein organic acid used is acetic acid.
- 45 **45.** Use of oro-dental care composition as claimed in claim 39, wherein flavoring agent used are natural or artificials cinnamon-clove beads.

- 5 **46. Use of oro-dental care composition as claimed in claim 39, wherein flavoring agent used are selected form cinnamon-clove beads, citrus flavor such as orange and lemon and vanilla.**